| Name Class Date |
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Quick Lab

Comparing Limb Structure and Function

Could you tell if two people were related just by looking at them? What kinds of evidence would help you determine their relationship? In this lab, you will observe parts of various animals and look for evidence that these animals are related to one another.

OBJECTIVES

Observe and **describe** the limb structures of different organisms. **Identify** relationships between the structures of different organisms.

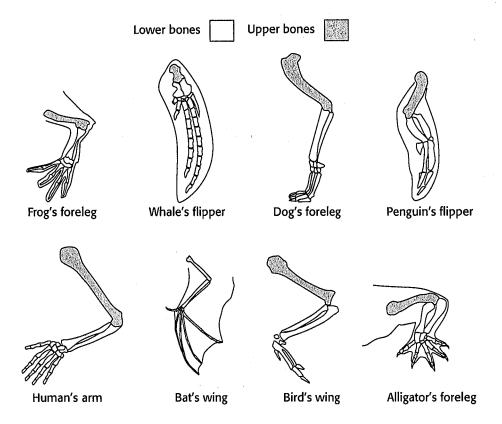
MATERIALS

• pen or pencil

Procedure

1. Observe the forelimbs of the animals shown in **Figure 1**. Count the approximate number of bones in each of the upper and lower limbs. Record this data in **Table 1**. Then record the function of each limb.

FIGURE 1 LIMBS OF DIFFERENT ANIMALS



| | Approximate number of bones in upper limb | Approximate number of bones in lower limb | Function of limb |
|---|---|--|--|
| Frog | | | |
| Whale | | | |
| Dog | | | ~ |
| Penguin | | | |
| Human | | | |
| Bat | | | |
| Bird | | | |
| | | | |
| nalysis | and Conclusi | | of bones of each animal. Compar |
| nalysis . Examini these ob | ng Data Observe servations with the | the arrangement of approximate nu | of bones of each animal. Compar mber of the bones of each anima uman, bat, bird, and alligator |
| nalysis . Examini these ob How are similar? | ng Data Observe servations with the | the arrangement of approximate nu | mber of the bones of each anima |
| . Examini these ob How are similar? How do | ng Data Observe servations with the the limbs of the fraction the limbs of the fraction the limbs differ? | the arrangement of approximate nurse, whale, dog, hi | mber of the bones of each anima uman, bat, bird, and alligator |
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